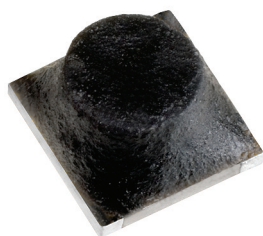
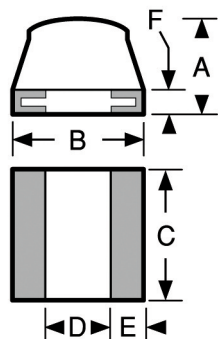


**SERIES****3094R**  
**3094**RoHS  
CompliantTraditional  
First Quality**Micro i® Chip Inductors**

Actual Size

**Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.140 Max.        | 3.56 Max.        |
| B | 0.147 to 0.163    | 3.73 to 4.14     |
| C | 0.117 to 0.133    | 2.97 to 3.38     |
| D | 0.070 Min.        | 1.78 Min.        |
| E | 0.017 to 0.033    | 0.43 to 0.84     |
| F | 0.020 Max. (Typ.) | 0.51 Max. (Typ.) |

**Current Rating at 90°C Ambient** 35°C Rise  
 Operating Temperature Range -55°C to +125°C  
 Maximum Power Dissipation at 90°C 0.155 W

**Inductance tolerance** desired is specified by suffixing an alpha character to the part number: F = 1%, G = 2%, H = 3%, J = 5%, K = 10%, and M = 20%. Standard series tolerance is  $\pm 10\%$ . For inductance values less than  $.10\mu\text{H}$ , minimum tolerance is  $\pm 5\%$ .

**Termination** Standard: Tin/Lead Sn63

**Mechanical Configuration** Units are epoxy encapsulated. Contact area for reflow are solder coated. Internal connections are thermal compression bonded.

**Notes** 1) Designed specifically for reflow soldering and other high temperature processes with metalized edges to exhibit solder fillet. 2) Self Resonant Frequency (SRF) values 270 MHz and above are calculated and for reference only. 3) Optional marking is available.

**Packaging** Tape & reel (12mm): 7" reel, 650 pieces max.; 13" reel, 2500 pieces max.

MIL-PRF-83446/10 (Reference)

**Made in the U.S.A.**

\*Complete part # must include series # PLUS the dash #

For surface finish information,  
 refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

| MIL DASH # (Reference) |        | INDUCTANCE (μH) ±10%                         |        | TEST FREQUENCY (MHz) |      | Q MINIMUM |       | SRF MINIMUM (MHz) |  | DC RESISTANCE MAXIMUM (OHMS) |  | CURRENT RATING MAXIMUM (mA) |  | RF INPUT |  |
|------------------------|--------|----------------------------------------------|--------|----------------------|------|-----------|-------|-------------------|--|------------------------------|--|-----------------------------|--|----------|--|
| DASH NUMBER*           |        | M83446/10- (Reference) SERIES 3094 IRON CORE |        |                      |      |           |       |                   |  |                              |  |                             |  |          |  |
|                        | -100KS | 62                                           | 0.010  | 60                   | 150  | 2000.0    | 0.040 | 1000              |  |                              |  |                             |  |          |  |
|                        | -120KS | 63                                           | 0.012  | 60                   | 150  | 1800.0    | 0.040 | 1000              |  |                              |  |                             |  |          |  |
|                        | -150KS | 64                                           | 0.015  | 60                   | 150  | 1500.0    | 0.040 | 1000              |  |                              |  |                             |  |          |  |
|                        | -180KS | 65                                           | 0.018  | 60                   | 150  | 1500.0    | 0.040 | 1000              |  |                              |  |                             |  |          |  |
|                        | -220KS | 66                                           | 0.022  | 60                   | 100  | 1300.0    | 0.050 | 1000              |  |                              |  |                             |  |          |  |
|                        | -270KS | 67                                           | 0.027  | 60                   | 100  | 1300.0    | 0.050 | 1000              |  |                              |  |                             |  |          |  |
|                        | -330KS | 68                                           | 0.033  | 60                   | 100  | 1000.0    | 0.050 | 1000              |  |                              |  |                             |  |          |  |
|                        | -390KS | 69                                           | 0.039  | 60                   | 100  | 1000.0    | 0.060 | 900               |  |                              |  |                             |  |          |  |
|                        | -470KS | 70                                           | 0.047  | 65                   | 100  | 800.0     | 0.060 | 900               |  |                              |  |                             |  |          |  |
|                        | -560KS | 71                                           | 0.056  | 65                   | 100  | 760.0     | 0.060 | 900               |  |                              |  |                             |  |          |  |
|                        | -680KS | 72                                           | 0.068  | 65                   | 100  | 700.0     | 0.070 | 840               |  |                              |  |                             |  |          |  |
|                        | -820KS | 73                                           | 0.082  | 65                   | 100  | 650.0     | 0.070 | 840               |  |                              |  |                             |  |          |  |
|                        | -101KS | 74                                           | 0.100  | 65                   | 50   | 570.0     | 0.070 | 840               |  |                              |  |                             |  |          |  |
|                        | -121KS | 75                                           | 0.120  | 65                   | 50   | 520.0     | 0.070 | 840               |  |                              |  |                             |  |          |  |
|                        | -151KS | 76                                           | 0.150  | 75                   | 50   | 400.0     | 0.080 | 790               |  |                              |  |                             |  |          |  |
|                        | -181KS | 77                                           | 0.180  | 75                   | 50   | 360.0     | 0.080 | 790               |  |                              |  |                             |  |          |  |
|                        | -221KS | 78                                           | 0.220  | 70                   | 50   | 320.0     | 0.080 | 790               |  |                              |  |                             |  |          |  |
|                        | -271KS | 79                                           | 0.270  | 70                   | 50   | 270.0     | 0.10  | 700               |  |                              |  |                             |  |          |  |
|                        | -331KS | 80                                           | 0.330  | 70                   | 50   | 240.0     | 0.10  | 700               |  |                              |  |                             |  |          |  |
|                        | -391KS | 81                                           | 0.390  | 70                   | 50   | 220.0     | 0.10  | 700               |  |                              |  |                             |  |          |  |
|                        | -471KS | 82                                           | 0.470  | 70                   | 25   | 190.0     | 0.14  | 590               |  |                              |  |                             |  |          |  |
|                        | -561KS | 83                                           | 0.560  | 70                   | 25   | 170.0     | 0.19  | 510               |  |                              |  |                             |  |          |  |
|                        | -681KS | 84                                           | 0.680  | 70                   | 25   | 160.0     | 0.26  | 430               |  |                              |  |                             |  |          |  |
|                        | -821KS | 85                                           | 0.820  | 75                   | 25   | 150.0     | 0.30  | 400               |  |                              |  |                             |  |          |  |
|                        | -102KS | 86                                           | 1.00   | 75                   | 25   | 130.0     | 0.34  | 380               |  |                              |  |                             |  |          |  |
|                        | -122KS | 87                                           | 1.20   | 65                   | 7.9  | 120.0     | 0.45  | 330               |  |                              |  |                             |  |          |  |
|                        | -152KS | 88                                           | 1.50   | 65                   | 7.9  | 110.0     | 0.57  | 290               |  |                              |  |                             |  |          |  |
|                        | -182KS | 89                                           | 1.80   | 65                   | 7.9  | 100.0     | 0.72  | 260               |  |                              |  |                             |  |          |  |
|                        | -222KS | 90                                           | 2.20   | 65                   | 7.9  | 80.0      | 0.90  | 230               |  |                              |  |                             |  |          |  |
|                        | -272KS | 91                                           | 2.70   | 65                   | 7.9  | 60.0      | 1.10  | 210               |  |                              |  |                             |  |          |  |
|                        | -332KS | 92                                           | 3.30   | 60                   | 7.9  | 50.0      | 1.20  | 200               |  |                              |  |                             |  |          |  |
|                        | -392KS | 93                                           | 3.90   | 60                   | 7.9  | 45.0      | 1.40  | 180               |  |                              |  |                             |  |          |  |
|                        | -472KS | 94                                           | 4.70   | 60                   | 7.9  | 42.0      | 1.60  | 170               |  |                              |  |                             |  |          |  |
|                        | -562KS | 95                                           | 5.60   | 65                   | 7.9  | 40.0      | 1.80  | 160               |  |                              |  |                             |  |          |  |
|                        | -682KS | 96                                           | 6.80   | 65                   | 7.9  | 37.0      | 2.40  | 140               |  |                              |  |                             |  |          |  |
|                        | -822KS | 97                                           | 8.20   | 65                   | 7.9  | 34.0      | 3.00  | 130               |  |                              |  |                             |  |          |  |
|                        | -103KS | 98                                           | 10.0   | 65                   | 7.9  | 29.0      | 3.50  | 120               |  |                              |  |                             |  |          |  |
|                        | -123KS | 99                                           | 12.0   | 60                   | 2.5  | 27.0      | 3.60  | 118               |  |                              |  |                             |  |          |  |
|                        | -153KS | 100                                          | 15.0   | 60                   | 2.5  | 22.0      | 3.70  | 115               |  |                              |  |                             |  |          |  |
|                        | -183KS | 101                                          | 18.0   | 60                   | 2.5  | 17.0      | 3.80  | 114               |  |                              |  |                             |  |          |  |
|                        | -223KS | 102                                          | 22.0   | 60                   | 2.5  | 16.0      | 3.90  | 113               |  |                              |  |                             |  |          |  |
|                        | -273KS | 103                                          | 27.0   | 65                   | 2.5  | 15.0      | 4.00  | 110               |  |                              |  |                             |  |          |  |
|                        | -333KS | 104                                          | 33.0   | 65                   | 2.5  | 14.0      | 5.00  | 100               |  |                              |  |                             |  |          |  |
|                        | -393KS | 105                                          | 39.0   | 65                   | 2.5  | 13.0      | 7.00  | 84                |  |                              |  |                             |  |          |  |
|                        | -473KS | 106                                          | 47.0   | 70                   | 2.5  | 12.0      | 8.00  | 79                |  |                              |  |                             |  |          |  |
|                        | -563KS | 107                                          | 56.0   | 70                   | 2.5  | 11.0      | 10.0  | 70                |  |                              |  |                             |  |          |  |
|                        | -683KS | 108                                          | 68.0   | 65                   | 2.5  | 10.0      | 11.0  | 67                |  |                              |  |                             |  |          |  |
|                        | -823KS | 109                                          | 82.0   | 60                   | 2.5  | 9.0       | 12.0  | 64                |  |                              |  |                             |  |          |  |
|                        | -104KS | 110                                          | 100.0  | 60                   | 2.5  | 8.0       | 13.0  | 62                |  |                              |  |                             |  |          |  |
|                        | -124KS | 111                                          | 120.0  | 40                   | 0.79 | 7.0       | 14.0  | 59                |  |                              |  |                             |  |          |  |
|                        | -154KS | 112                                          | 150.0  | 40                   | 0.79 | 6.0       | 16.0  | 56                |  |                              |  |                             |  |          |  |
|                        | -184KS | 113                                          | 180.0  | 40                   | 0.79 | 5.0       | 18.0  | 52                |  |                              |  |                             |  |          |  |
|                        | -224KS | 114                                          | 220.0  | 40                   | 0.79 | 4.0       | 24.0  | 45                |  |                              |  |                             |  |          |  |
|                        | -274KS | 115                                          | 270.0  | 40                   | 0.79 | 3.3       | 25.0  | 44                |  |                              |  |                             |  |          |  |
|                        | -334KS | 116                                          | 330.0  | 40                   | 0.79 | 3.1       | 29.0  | 41                |  |                              |  |                             |  |          |  |
|                        | -394KS | 117                                          | 390.0  | 40                   | 0.79 | 2.9       | 32.0  | 39                |  |                              |  |                             |  |          |  |
|                        | -474KS | 118                                          | 470.0  | 35                   | 0.79 | 2.4       | 35.0  | 37                |  |                              |  |                             |  |          |  |
|                        | -564KS | 119                                          | 560.0  | 35                   | 0.79 | 2.1       | 45.0  | 33                |  |                              |  |                             |  |          |  |
|                        | -684KS | 120                                          | 680.0  | 35                   | 0.79 | 1.9       | 55.0  | 30                |  |                              |  |                             |  |          |  |
|                        | -824KS | 121                                          | 820.0  | 30                   | 0.79 | 1.8       | 70.0  | 26                |  |                              |  |                             |  |          |  |
|                        | -105KS | 122                                          | 1000.0 | 30                   | 0.79 | 1.7       | 80.0  | 25                |  |                              |  |                             |  |          |  |